

INFRA-RED PAINT DRYERS



Before use, adjustment or maintenance, you must read completely this instruction manual very carefully. This must be kept for any future reference.

IMPORTANT

This equipment should be operated only by an adequately trained operator for safe use and maintenance of the equipment. Any misuse or handling other than those indicated in this Instruction Manual is not covered by guarantee. Anest Iwata disclaims all responsibility for any accident or damage caused by failure to observe the operational and safety procedures contained in this manual.

In the interest of user friendliness, this manual contains information in a brief and concise format. For any additional information you may require regarding the heater operations, or if any missing parts or any damage during transportation is found, please contact your nearest Anest Iwata Company (see last cover page).

OPERATING INSTRUCTIONS BEFORE USE

Anest Iwata infra-red mobile drying systems provide a fast efficient answer for all your local body repairs.

Infra-red units provide a cost effective method of paint drying and curing can be achieved in just minutes, using the highly effective short wave infra-red lamp.

Anest Iwata infra-red units are available in a number of options allowing you to choose the most convenient model for your bodyshop.

A Guide to curing times is given in the paint data guide but on average our short wave system will cure in around just 10 minutes offering enormous savings on both time and energy costs.

Your Anest Iwata infra-red system will provide years of trouble free operation by following these few simple steps.

- Always keep the unit clean.
- Change damaged or broken emitters/lamps.
- Systematically clean reflectors.
- Do Not touch Lamps/Emitters with fingers - clean with alcohol.
- Follow paint manufacturers recommendations.
- Never use closer than the recommended minimum of 500 mm (20 in.).
- Follow safety rules - never use in explosive situations.

SAFETY INSTRUCTIONS

- Read and ensure that you understand all the safety, assembly and operating instructions before unpacking the equipment.
- Always disconnect from the power supply before carrying out maintenance.
- Ensure that the correct power source is available for the unit you have purchased. Identify the requirements from the serial number label fixed to the unit. If in doubt, consult a qualified electrician.
- Consult a qualified electrician to confirm the suitability of your electrical supply system and wiring for the unit you have purchased.
- Always ensure that the plug and socket are correctly earthed. If in doubt, consult a qualified electrician.
- Always use the unit in an area with adequate ventilation.
- Do not position the unit too close to the panel as this can cause the paint to overheat.
- Never leave the supply cable coiled when the unit is switched on as heat build-up can occur due to magnetic induction. Unwind the cable fully whenever in use.
- Do not stare directly at the light emitted from the infra-red tubes.
- Do not touch the tubes at any time with bare hands. This can cause permanent damage to the tube unless the oil and grease is removed. Use a soft cloth soaked in methylated spirit for this purpose.
- The infra-red tubes become extremely hot during normal use. When carrying out maintenance, ensure the tubes are completely cool before removing from cassette head.
- Avoid splashing water onto the unit, particularly when using it in a “wet flatting” area of the work shop.
- When positioning the cantilever arm, take care not to trap fingers or arms.

ASSEMBLY INSTRUCTIONS FOR HAND HELD AND STATIC PAINT DRYING SYSTEMS

The Hand held VIU-100000 unit has been packed with a separate handle ready for attachment to the body.

The handle should be attached to the main unit by means of the bolt supplied, ensuring the spacer provided is fitted between the two fixing posts of the heater. Please ensure the star washer is fitted under the head of the bolt, then fully tighten to secure.

When fitted, the pre-made hole in the grip of the handle should be at the bottom of the heater. If correct you will be able to tilt the body of the heater in a downward direction only.

The VIU-100010 Hand held plus Stand has been packed as separate components.

The Hand held heater should be assembled as above. The Stand has been supplied as four components - base / bottom upright / top upright /adjustable bracket.

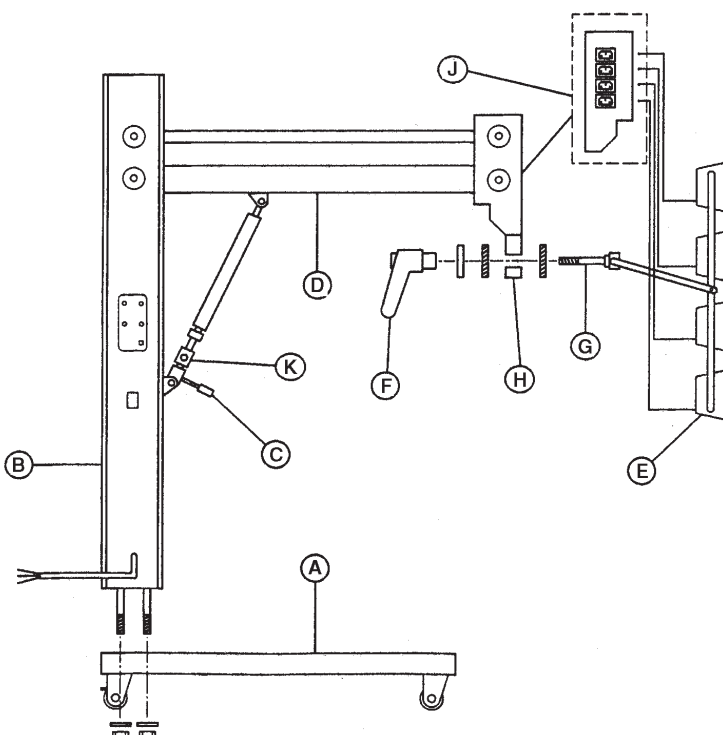
First place the cross base on the floor, then screw the bottom upright into the base. The top upright should then be screwed into the bottom upright to complete your stand.

The adjustable bracket should now be fitted ensuring the support stem is in an upright position. The bracket can be locked into position at any point on the stand.

You should now be able to fit the heater to the bracket, simply by placing the pre-made hole in the handle over the upright support stem of the bracket.

ASSEMBLY INSTRUCTIONS FOR MOBILE UNITS

1. Unpack u-shape base(a) - place on floor and lock rear wheels.
2. Unpack main upright(b). Remove nuts and washers from the base of upright. Do not remove safety strap.
3. Place protruding bolts on upright into pre-drilled holes in base. Lightly hold in place with washers and nuts. Cut and remove safety strap — tighten nuts and secure, being careful not to touch gas strut handle(c).
4. Raise support arm(d) carefully, using handle(c) on gas strut until the arm is horizontal to main upright. Ensure support arm is being held while being raised.
5. Unpack cassette module(e) and remove locking handle(f) and special washers.
6. Place star washer in to protruding cassette bolt(g), then fit bolt into hole on swivel head(h). Then put on star washer, plain washer and secure with handle.
7. Plug cassette cables into socket(j).
8. Push gas strut handle(c) and lower the cassette module(e) until it is 75mm from the floor. Then release the two bolts securing the stop(k) and slide this and the rubber bush up to the gas strut. Tighten the two bolts. This is necessary to stop the lower cassette hitting the floor when the arm is fully lowered.
9. The unit may now be operated by pushing the handle(c) on the lockable gas strut while pulling down or pushing up the support arm(d) to the desired position.
10. Check electrical rating on label and connect appropriate plug.



| ITEMS | COMPONENTS |
|-------|------------------|
| A | BASE |
| B | MAIN UPRIGHT |
| C | GAS STRUT HANDLE |
| D | SUPPORT |
| E | CASSETTE MODULE |
| F | LOCKING HANDLE |
| G | CASSETTE BOLT |
| H | SWIVEL HEAD |
| J | SOCKET |
| K | STOP |

OPERATING INSTRUCTIONS AND USER GUIDE

Your Infra-red unit can be used success fully on Filler, Primer and Finish Coats

BEFORE USE: Check the Paint Data Guide for appropriate drying times. We recommend you contact your own paint supplier with regard to short wave infra-red drying of paints and colours not listed in the guide and to check that the guide is correct to the specific materials/colours supplied to you.

1. Move the unit into position, approximately 500mm (20 inches) from the area to be heated. Adjust the cassette heads around the contours of the repaired area and lock into position.
2. Switch on main isolator, set FLASH and BAKE controls to desired time and temperature settings. The unit incorporates an electronic system which allows fully variable heat control on both the FLASH and BAKE cycle.
3. When set, push GREEN START/STANDBY button to begin drying. Once activated a flashing red light will denote the setting in use. The system will automatically switch from flash to bake and continue until cycle has finished. The electronic control has a one minute minimum built into the flash setting, as we would recommend a short period of flash at about half the power for most jobs. This operation will assist in easing any solvents from the work and avoid such problems as skinning or popping.
4. Each cassette head has a built in on/off switch for total flexibility allowing the operator to control heat as required.

PLEASE NOTE: If any cassette fails to operate on any new cycle, individual switches should be checked as they may have been left in the off position.

WE RECOMMEND A TEST PANEL IS USED FOR INITIAL OPERATION TO ALLOW THE OPERATOR TO FAMILIARISE THEMSELVES WITH THE SYSTEM.

GENERAL APPLICATIONS

FILLER: Full power for about 5 minutes will achieve a hard sandable finish.

ETCH PRIMER: Full power for approx. 5 minutes.

PRIMER: For normal build of two coats use full power for about 8 minutes.

HIGH BUILD PRIMER: For a normal minimum of three coats we suggest 5 minutes FLASH then full power for a minimum of 10 minutes.

TOP COATS: Top coats vary depending on the paint finish and colour, dark colours tend to heat rapidly and should always be used with FLASH at just under half power - an average cure time is around 12 minutes total, including flash off and bake.

REFER TO THE PAINT DATA GUIDE FOR FULL INFORMATION

The Company reserves the right to amend these instructions without notice.

ADS AUDIBLE DISTANCE SENSOR AND OTS OPTICAL TEMPERATURE SYSTEM OPERATING INSTRUCTIONS

If your system is fitted with the ADS Audible Distance Sensor or ADS/OTS Audible Distance Sensor plus Optical Temperature System, the following operating instructions will apply.

ADS - Audible Distance Sensor

On models fitted with the ADS system, an additional operating label and on/off switch will be located in a black box attached to one of the cassettes.

When you are ready to position your machine next to a vehicle, and before starting the drying process, use the toggle switch located at the bottom of the ADS label to switch on the sensor. This will illuminate one of the LED indicators showing the position of the dryer, usually as being too near or too far from the vehicle.

Move your dryer in the direction required and as indicated on the label, until the green LED is lit and a continuous buzzer is heard. At this position, secure the wheel brakes on the rear of the base unit and switch off the ADS sensor.

The dryer is now at the correct distance to commence the drying process.

PLEASE NOTE: As additional protection, should the machine be accidentally moved too close to your work after the distance has been set, the machine will switch off and the drying programme will be automatically cancelled.

OTS - Optical Temperature Sensor

Models fitted with an OTS sensor will have a digital panel meter mounted into the front control panel above the ADS sensor label. An infra-red non-contact thermocouple will be fitted into the housing of the ADS system on one of the cassettes.

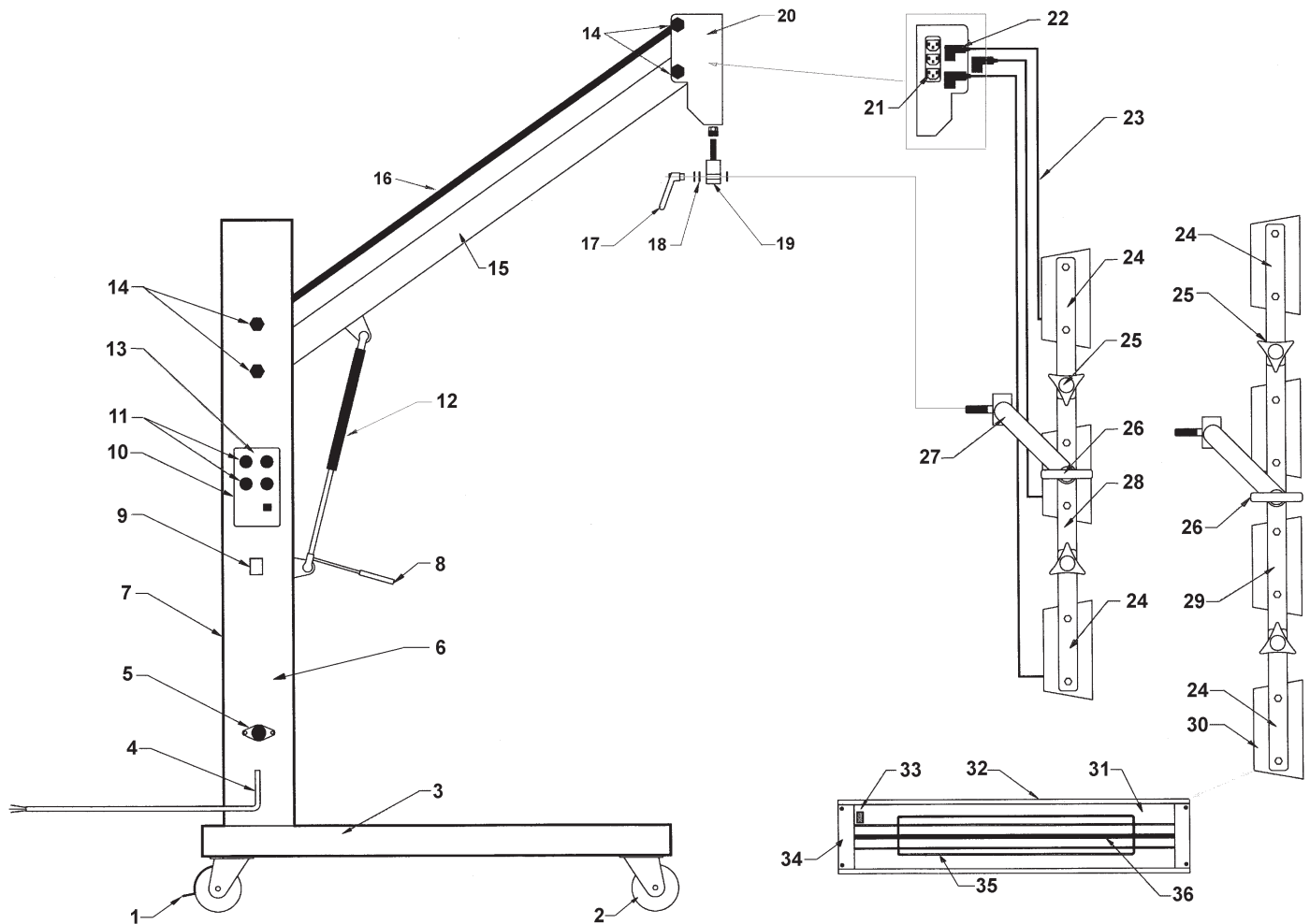
The OTS sensor will be in operation as soon as you switch on your dryer, and provide a permanent record of the temperature being recorded by the sensor. In practice this means your digital meter will record all temperatures seen by the sensor, which will provide an ongoing record of the panel temperature achieved, before, during and after the drying/curing process.

Individual paint manufacturers can provide optimum curing temperatures for all types of paint and finishes.

For European models the digital panel meter will provide a "C" Celsius temperature, for USA models the temperature will be in "F" degrees Fahrenheit.

Please note: An additional signal cable will be provided for the ADS/OTS system which has to be plugged into the rear of the box located on the back of a cassette, during assembly.

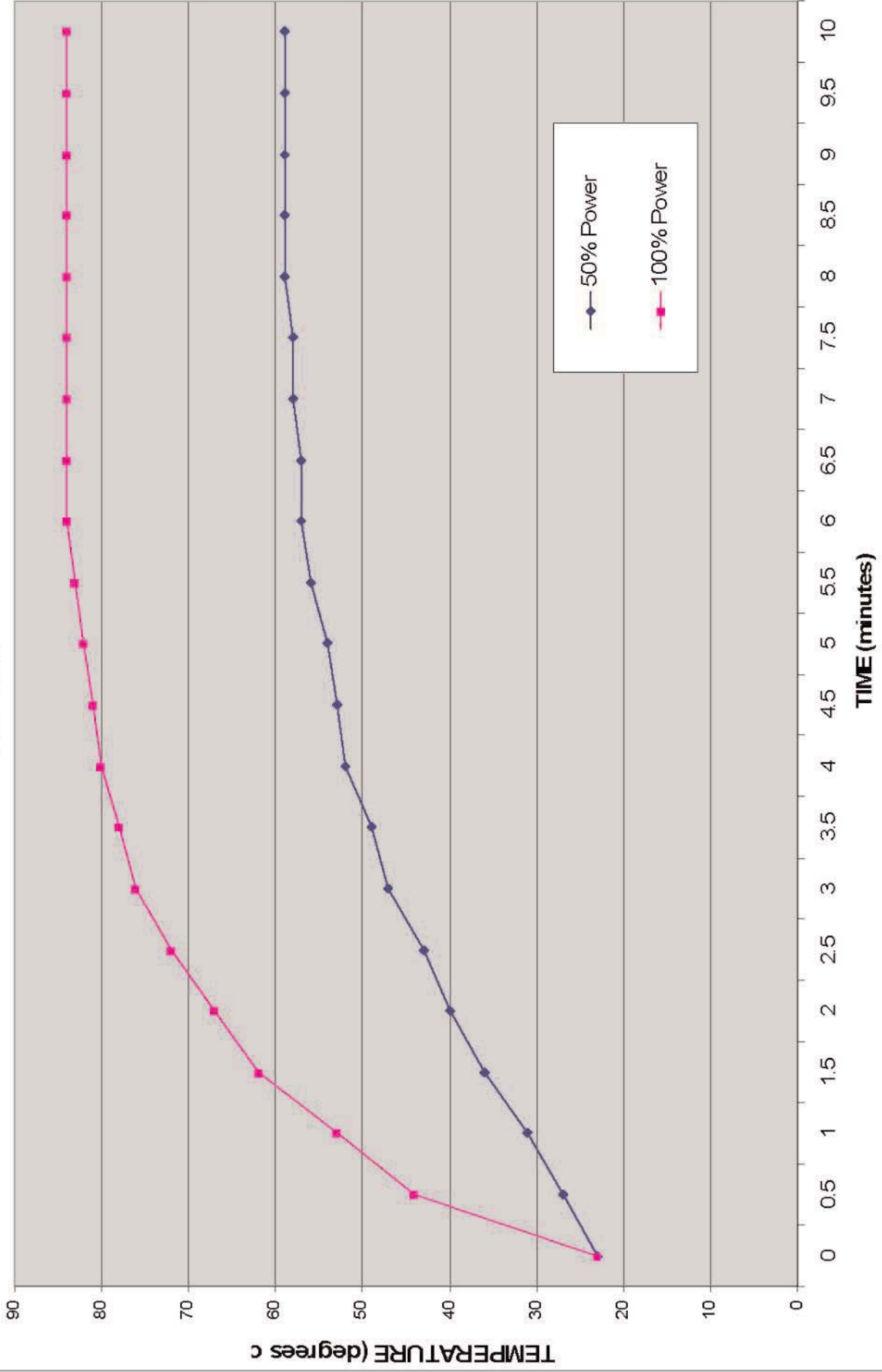
SPARE PARTS

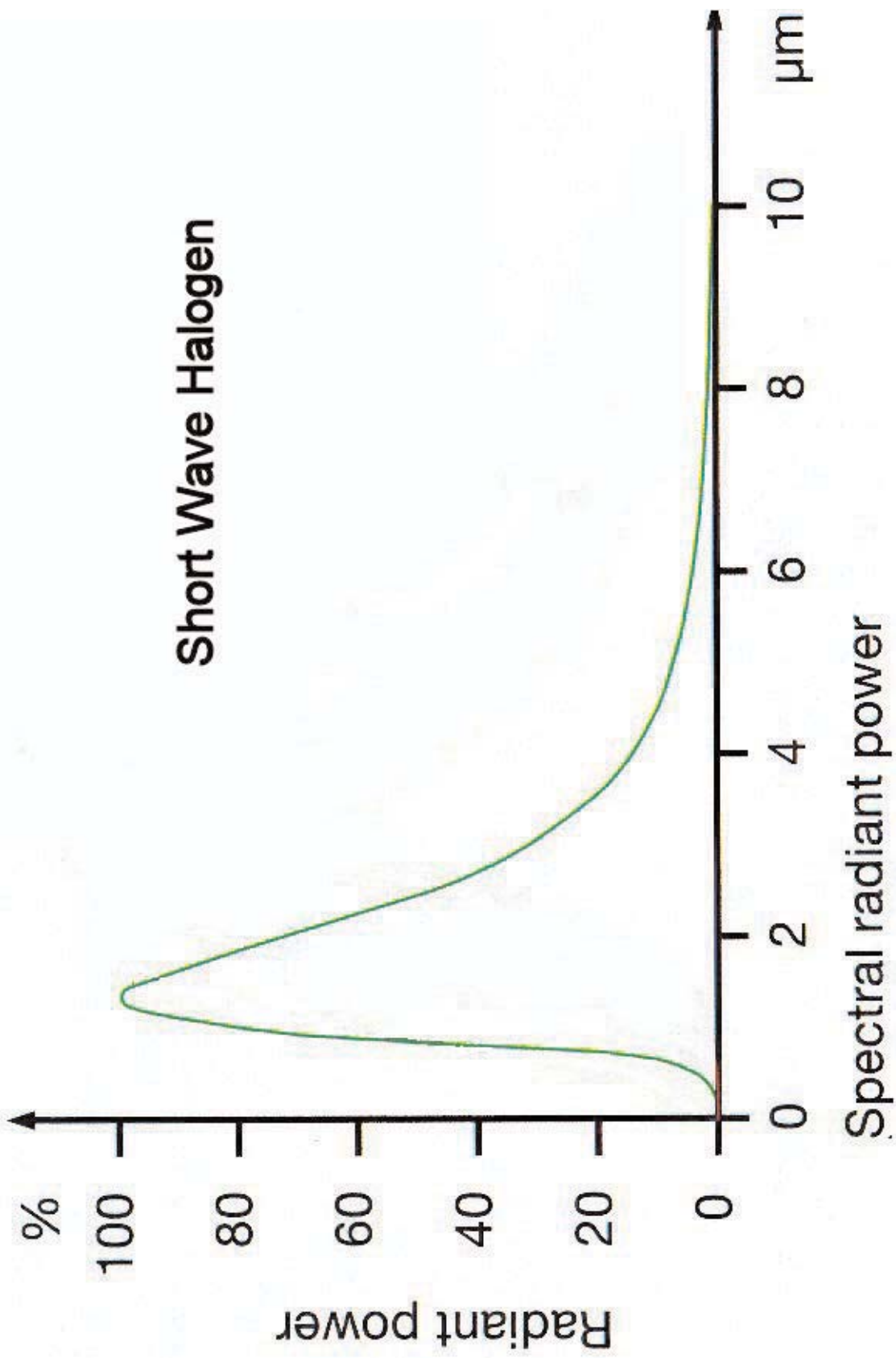


| DESCRIPTION | REF. |
|---|---------|
| Castor with brake | ref. 1 |
| Castor without brake | ref. 2 |
| U Base (No Castors) | ref. 3 |
| Main cable without plug | ref. 4 |
| Triac power control | ref. 5 |
| Front panel metal cover only | ref. 6 |
| Main upright (metal part only) | ref. 7 |
| Gas strut lever | ref. 8 |
| Main switch single phase/3 phase | ref. 9 |
| Circuit board single phase/3 phase | ref. 10 |
| Black knob for control circuit board | ref. 11 |
| Gas strut only (without lever) | ref. 12 |
| Control panel label AI | ref. 13 |
| Nut cap M12 | ref. 14 |
| Top support arm | ref. 15 |
| Top tie bar (all models) | ref. 16 |
| Ratchet handle | ref. 17 |
| Washers for cassette support locking handle | ref. 18 |

| DESCRIPTION | REF. |
|---|---------|
| Washers for cassette support locking handle | ref. 18 |
| Swivel block | ref. 19 |
| Head | ref. 20 |
| Quad block socket single phase/3 phase models | ref. 21 |
| Kettle plug | ref. 22 |
| Cassette cable assembly c/w plug | ref. 23 |
| Universal outer strap | ref. 24 |
| Tri knob | ref. 25 |
| T knob | ref. 26 |
| Overhead cassette support arm | ref. 27 |
| Centre strap 3 head | ref. 28 |
| Centre strap 4 head | ref. 29 |
| Blue cassette box only (empty) | ref. 30 |
| Back reflector | ref. 31 |
| Cassette assembly complete (no lamp) | ref. 32 |
| Cassette on/off switch | ref. 33 |
| End reflector | ref. 34 |
| Cassette guard | ref. 35 |
| 1KW TUBE 500 mm 220/240 volt | ref. 36 |
| 1.5KW TUBE 750 mm 220/240 volt | ref. 36 |
| 1KW TUBE 300 mm 220/240 volt | ref. 36 |

HLP3000







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